



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, S.E.
Charleston, WV 25304
(304) 926-0450
fax: (304) 926-0452

Jim Justice , Governor
Austin Caperton , Cabinet Secretary
www.dep.wv.gov

Wednesday, November 15, 2017
WELL WORK PERMIT
Vertical / Plugging

CONSOL GAS COMPANY
1000 CONSOL ENERGY DRIVE

CANNONSBURG, PA 163176506

Re: Permit approval for 12432
47-077-00186-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926- 0450.

James A. Martin
Chief

Operator's Well Number: 12432
Farm Name: HOLMES, DONALD
U.S. WELL NUMBER: 47-077-00186-00-00
Vertical / Plugging
Date Issued: 11/15/2017

Promoting a healthy environment.

11/17/2017

PERMIT CONDITIONS

West Virginia Code §22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
3. Well work activities shall not constitute a hazard to the safety of persons.

7700186A

WW-4B
Rev. 2/01

1) Date _____, 20 17
2) Operator's
Well No. 7142
3) API Well NO. 47-077 - 00186

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil ____/ Gas ____/ Liquid injection ____/ Waste disposal ____/
(If "Gas, Production or Underground storage ____) Deep ____/ Shallow

5) Location: Elevation 540.002 METERS Watershed HEADWATERS DECKERS CREEK
District VALLEY County PRESTON Quadrangle MASONTOWN

6) Well Operator Consol Gas Company 7) Designated Agent Christopher Turner
Address 1000 Consol Energy Drive Address P.O. Box 1248
Canonsburg, PA 15317 Jane Lew, WV 26378

8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Gayne J Knitowski Name Coastal Drilling East LLC
Address P.O. Box 108 Address 70 Gums Springs Road
Gormanian WV 26720 Morgantown, WV 26508

10) Work Order: The work order for the manner of plugging this well is as follows:
See attached.

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Environmental Protection

Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector Gayne J Knitowski Date 10/10/2017

11/17/2017

Holmes #7142

Deckers Creek, Preston County, WV
 Original Completion: 10/16/1977
 API# 47-077-00186
 Elevation = 1773'

Procedure:

1. Load Hole/Kill Well, Pump 6% gel if necessary
2. RIH with Bond Tool to verify TD, log out to verify 4 1/2" TOC (4 1/2" Casing Float @ 7879')
3. TIH with 2 3/8" Workstring and load the well with 6% Gel
4. Pump Class A Cement Plug from TD to 4 1/2" TOC (4 1/2" TOC est. @ 6900')
5. Verify TOC
6. RIH Jet Cut/Collar Bust 4 1/2" Casing above Bottom Hole Plug
7. Attempt to pull 4 1/2" Casing *at min. 1 1/2 times string weight*
- * a. If unable to pull run bond long/free point and cut where free
8. TIH with 2 3/8" Workstring to 2000' and set Class A Cement Plug from 2000' to surface
9. Install monument with Well Name, API#, & Company Name. Monument must extend 30" min. above ground level and be 6" in diameter.

10. *Reclaim well site ASAP*

NOTE: All Cement plugs will be Class A Cement, All Spacers between ^{PLUGS} wells will be 6% Gel, Any casing unable to be recovered will be perforated every 100' with ⁷ 4" shots and 100' cement plugs will be set to cover all cut points.

If it becomes necessary to deviate from this method, approval from the WV DEP Oil & Gas Division will be obtained before proceeding.

Work Order approved by Inspector: *Maureen J. Kuhl* Date: *10/10/200*

- * SET 200' CLASS A CEMENT PLUG ACROSS 4 1/2" CASING CUT. *g.m.m.*
- * SET 200' CLASS A CEMENT PLUG IN COMPETENT OPEN HOLE AT \approx 3500'. (SAFETY PLUG),

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* NOTE CALIPER LOG GOOD TO 6000'

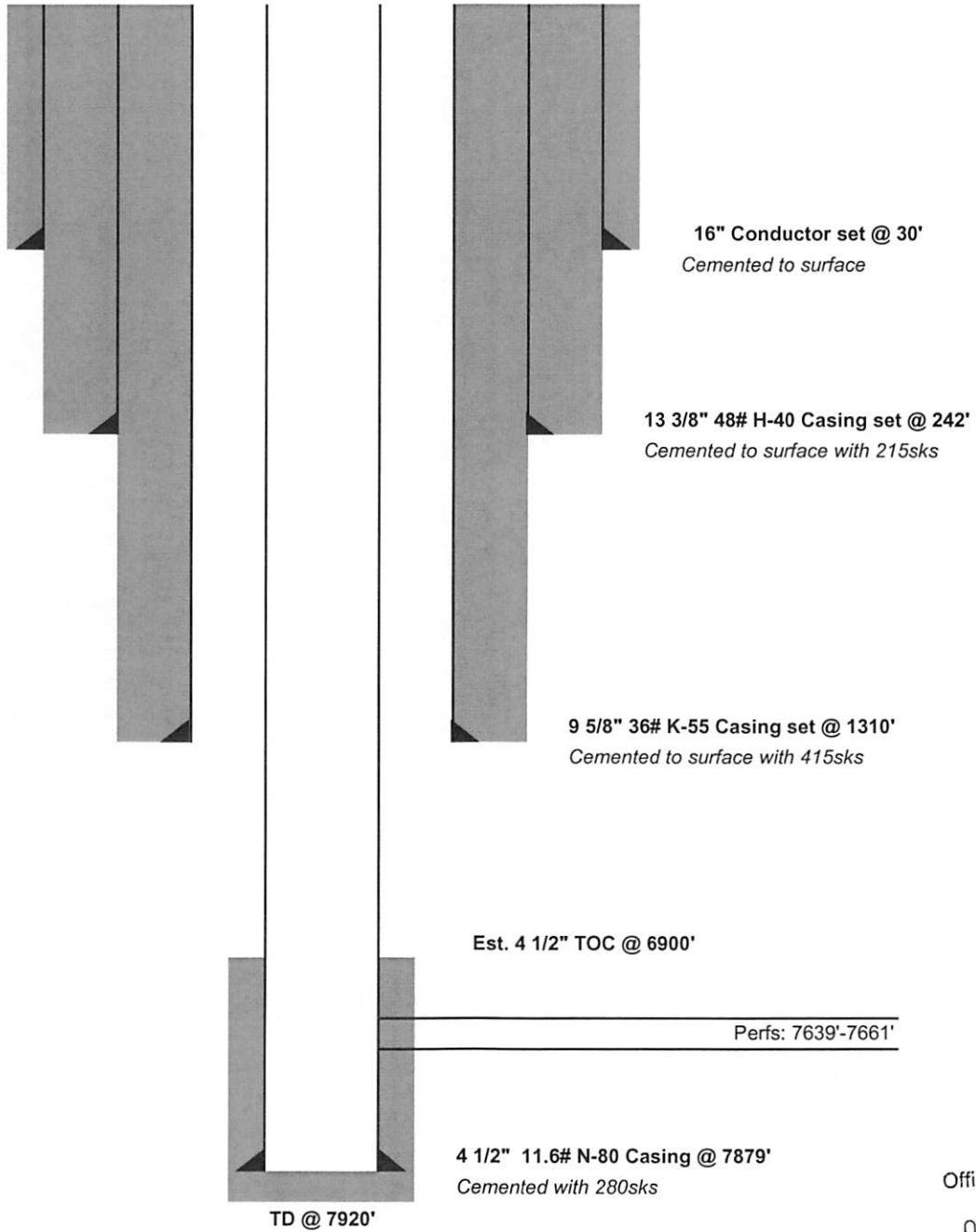
11/17/2017

Holmes #7142
Deckers Creek, Preston County, WV

Original Completion : 10/16/1977

API #: 47-077-00186

Elevation = 1773'



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STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
Oil and Gas Division

WELL RECORD

Quadrangle MASONTOWN
Permit No. PRES-186

Form XX
Date
Revised
Water
Disposal

Company Consolidated Gas Supply Corporation
Address Clarksburg, W. Va.
Farm Donald Holmes Acres 43
Location (waters) Deckers Creek
Well No. 12432 Elev. 1773'
District Valley County Preston
The surface of tract is owned in fee by D.O. & C.L. Holmes
Address Masontown, W. Va.
Mineral rights are owned by Same
Address

Casing and Tubing	Used in Drilling	Feet	Remarks
Size 20-16	30'	30'	To surface
Concl. 15-10"	242'	242'	To surface
9 5/8"	1310'	1310'	To surface
8 5/8"			
7"			
5 1/2"			
4 1/2"	7879'	7879'	250 bags 280 SKS
3"			
2"			
Liners Used			

Drilling Commenced 9-22-77
Drilling Completed 10-16-77
Initial open flow Short cu. ft. _____ bbls.
Final production 2,958 M cu. ft. per day _____ bbls.
Well open 4 hrs. before test. 2675# RP.

Well treatment details: Attach copy of cementing record
Fractured Chert with 50,000# sand, 1000 bbl 5% Hcl, 1000Gal 205 Hcl and 1000 HHP
Perforations: 7639-7661' with 22 holes.

Coal was encountered at 126' Feet 12" inches
Fresh water 40' 132' Feet Salt Water None
Producing Sand CHERT Depth

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Clay & Shale			0	74	Water	40 Fresh
Coal			126	127		
Sand & Shale			127	7152		
Tully Limestone			7152	7238		
Onondaga			7578	7595		
Chert			7595	7770	Gas	7639-7661'
Oriskany			7770	7843		
HELDERBERG			7843	7906		
Total Depth				7906		

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* Indicates Electric Log tops in the remarks section.

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OCT 19 1977

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION

OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. Res-126

Oil or Gas Well (KIND)

Company Consolidated Gas Supply Co. P.
Address Clarksburg, West Virginia
Farm Donald Holmes
Well No. #12432
District Valley County Praston

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer
13	<u>242' - 2 1/2" - 215'</u>		<u>SKS Cement</u>
11	<u>9 1/2" - 1310' - 2 1/2" - 415'</u>		<u>SKS Cement</u>
8 1/2			
6 1/2			Depth set
5 3/16			
4 1/2	<u>7879'</u>	<u>280' SK Cement</u>	
2		<u>Annular approx 1200ft</u>	
Liners Used			Perf. top
			Perf. bottom

Drilling commenced
Drilling completed Total depth 1920'
Date shot Depth of shot
Initial open flow /10lbs Water in Inch
Open flow after tubing /10lbs Merc. in Inch
Volume Cu. Ft.
Rock pressure lbs. hrs.
Oil bbls. 1st 24 hrs.
Fresh water 265' feet feet
Salt water feet feet

CASING CEMENTED	SIZE	No. FT.	Date
NAME OF SERVICE COMPANY			
<u>72-74 - 126-127'</u>			
COAL WAS ENCOUNTERED AT	FEET	INCHES	
	FEET	INCHES	FEET INCHES
	FEET	INCHES	FEET INCHES

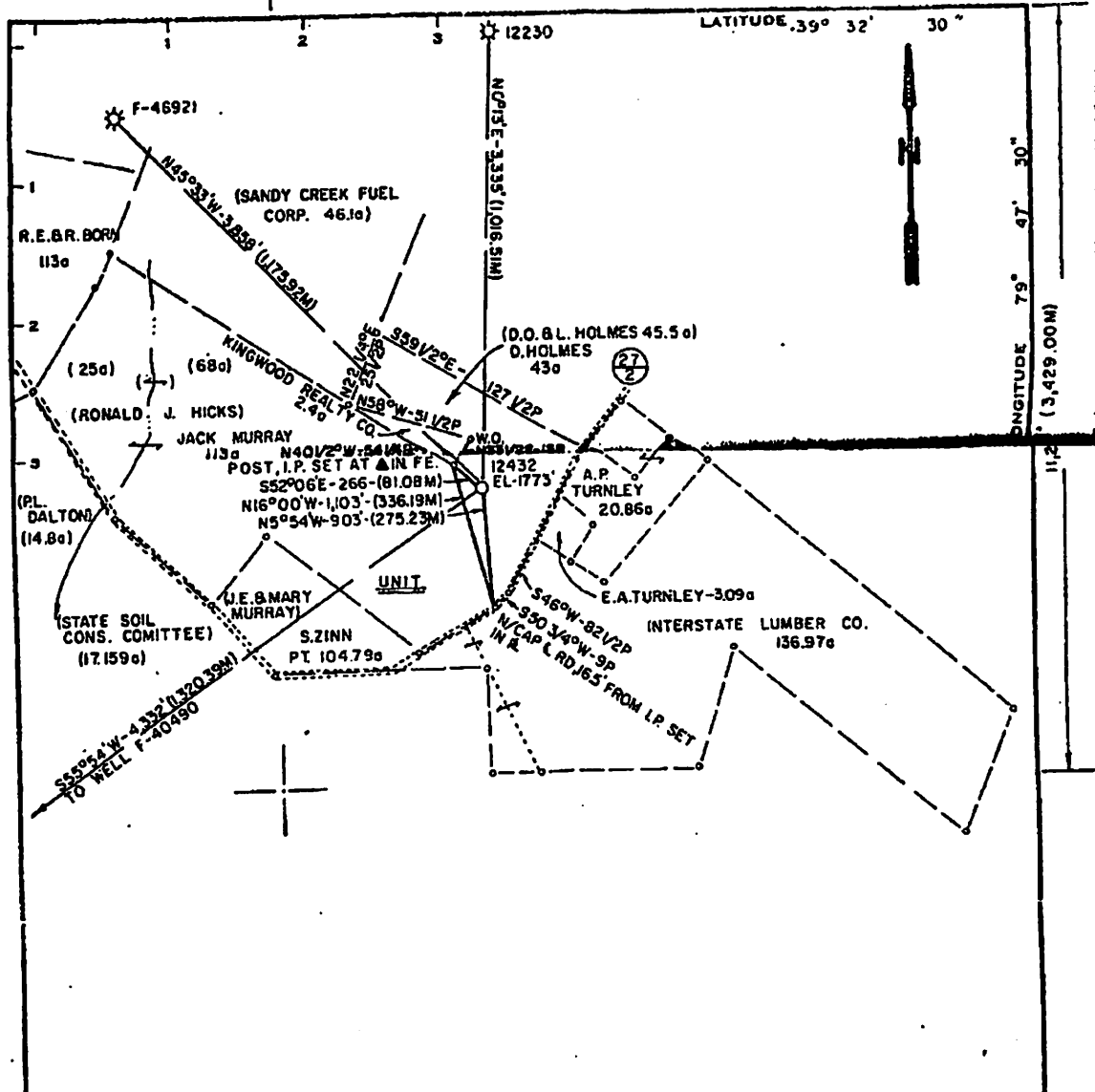
Drillers' Names D. Weekly, Emyers, T. Jetter

Remarks:

Contractor Ray Resources - Rotary Rig #6

Date October 19, 1977

William J. Shaver
DISTRICT WELL INSPECTOR



Minimum Error of Closure 1' IN 200'
 Source of Elevation B.M. = ROAD FORK EL-1827' MASONTOWN 7 1/2'

"I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia."

New Location
 Drill Deeper
 Abandonment

MAP SHEET 933-113 P B 1897 PG-2-4

Company CONSOLIDATED GAS SUPPLY CORP.
 Address CLARKSBURG, W.V.
 Farm D.O.B.L. HOLMES (D. HOLMES)
 Tract _____ Acres 43 Lease No. 128796
 Well (Farm) No. _____ Serial No. 12432
 Elevation (Spirit Level) 1773'
 Quadrangle MASONTOWN 7 1/2'
 County PRESTON District W. TURNLEY
 Engineer Ralph E. Marshall
 Engineer's Registration No. 11,521
 File No. _____ Drawing No. _____
 Date 8-27-77 Scale 1" = 1,000'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP
 FILE NO. Pres - 186

+ Denotes location of well on United States Topographic Maps, scale 1 to 24,000 latitude and longitude lines being represented by border lines as shown.
 - Denotes one inch spaces on border line of original tracing.

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 WV Department of Environmental Protection

WW-4A
Revised 6-07

1) Date: _____
2) Operator's Well Number
7142

3) API Well No.: 47 - 077 - 00186

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>SPIKES CHIMNEY SWEEP LLC</u>	Name <u>N/A</u>
Address <u>2145 ZINN CHAPEL RD</u>	Address _____
<u>REEDSVILLE WV 26547</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Patriot Mining Company c/o Ark Land Company</u>
_____	Address <u>One City Place Drive Suite 300</u>
(c) Name _____	<u>St. Louis, MO 63141</u>
Address _____	Name _____
_____	Address _____
6) Inspector <u>Gayne J Knitowski</u>	(c) Coal Lessee with Declaration
Address <u>P.O. Box 108</u>	Name <u>N/A</u>
<u>Gormanian WV 26720</u>	Address _____
Telephone <u>304-546-8171</u>	_____

TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.

COMMONWEALTH OF PENNSYLVANIA
 NOTARIAL SEAL
 Lori L. Walker, Notary Public
 Richhill Twp., Greene County
 My Commission Expires Feb. 23, 2019
 MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

Well Operator Consol Gas Company
 By: Sarah Weigand
 Its: Permitting Manager
 Address 1000 Consol Energy Drive
Canonsburg, PA 15370
 Telephone 724-485-3244

Commonwealth of Pennsylvania County of Greene
 Subscribed and sworn before me this 28th day of September 2017
Lori L. Walker Notary Public
 My Commission Expires February 23, 2019

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 WV Department of
 Environmental Protection

Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

7700186P

WW-9
(5/16)

API Number 47 - 077 - 00186
Operator's Well No. _____

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Consol Gas Company OP Code 494495754

Watershed (HUC 10) HEADWATERS DECKERS CREEK Quadrangle MASONTOWN

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No

Will a pit be used? Yes No

If so, please describe anticipated pit waste: _____

Will a synthetic liner be used in the pit? Yes No If so, what ml.? _____

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection (UIC Permit Number _____)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain Waste Management or Ryan Environmental will use vacuum trucks, and properly dispose of any fluid or waste returns)

Will closed loop system be used? If so, describe: no

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. na

-If oil based, what type? Synthetic, petroleum, etc.

Additives to be used in drilling medium? na

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. na

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) _____

-Landfill or offsite name/permit number? _____

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature Sarah Weigand
Company Official (Typed Name) Sarah Weigand

Company Official Title Permitting Manager
Commonwealth of Pennsylvania County of Greene

Subscribed and sworn before me this 28th day of September, 2017
Lori L Walker Notary Public

My commission expires February 23, 2019

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WV Department of
Environmental Protection

COMMONWEALTH OF PENNSYLVANIA
NOTARIAL SEAL
Lori L. Walker, Notary Public
Richhill Twp., Greene County
My Commission Expires Feb 23, 2019
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

Proposed Revegetation Treatment: Acres Disturbed less than 1 acre Prevegetation pH _____

Lime 2-3 Tons/acre or to correct to pH _____

Fertilizer type 10-20-20 or equivalent

Fertilizer amount 500 lbs/acre

Mulch hay or straw 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue	40	Tall Fescue	40
Landino Clover	5	Landino Clover	5

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Maureen J. Kuhn

Comments: _____

- Reclaim site ASAP
- Install soil erosion measures along access road and plugging site as needed.

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Title: Inspector Date: 10/10/2017

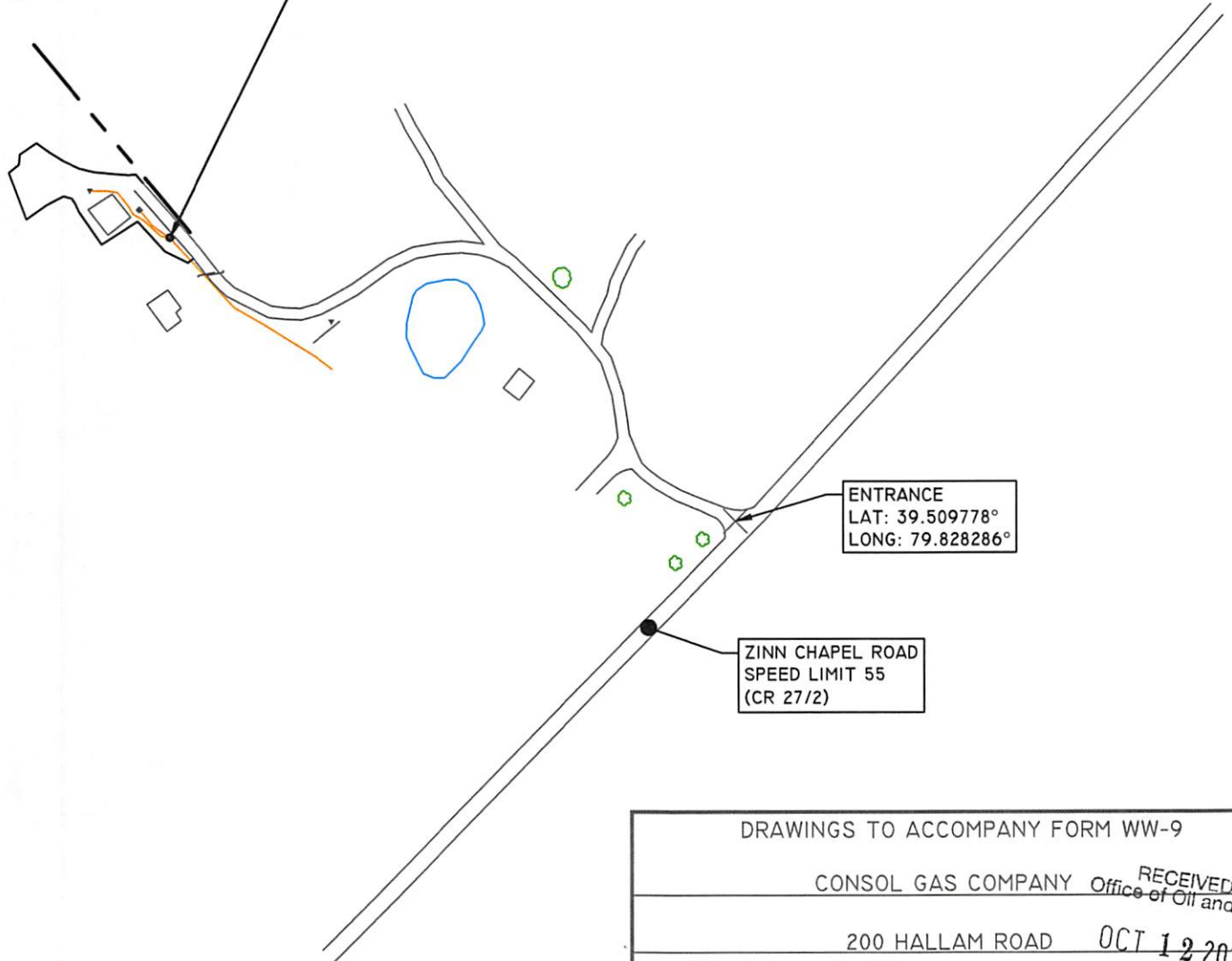
Field Reviewed? () Yes () No

THIS PLAN IS FOR THE PLUGGING OF AN EXISTING WELL. ENTIRE LENGTH OF ACCESS IS EXISTING WELL ROAD. ROCK WILL BE USED WHERE NECESSARY.

LEGEND

- — — — — - EXISTING ROAD
- ~~~~~ - EXISTING TREE LINE

HOLMES 7142
WELL
LAT: 39.510712°
LONG: 79.830718°



ENTRANCE
LAT: 39.509778°
LONG: 79.828286°

ZINN CHAPEL ROAD
SPEED LIMIT 55
(CR 27/2)

DRAWINGS TO ACCOMPANY FORM WW-9

CONSOL GAS COMPANY *RECEIVED*
Office of Oil and Gas

200 HALLAM ROAD *OCT 12 2017*

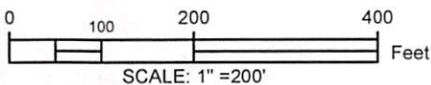
WASHINGTON, PA 15391 *WV Department of Environmental Protection*

WATERSHED: HEADWATERS DECKERS CREEK

DISTRICT: VALLEY COUNTY: PRESTON

QUADRANGLE: MASONTOWN WELL NO: HOLMES 7142

DATE: 07/13/2017 PAGE 1 OF 4

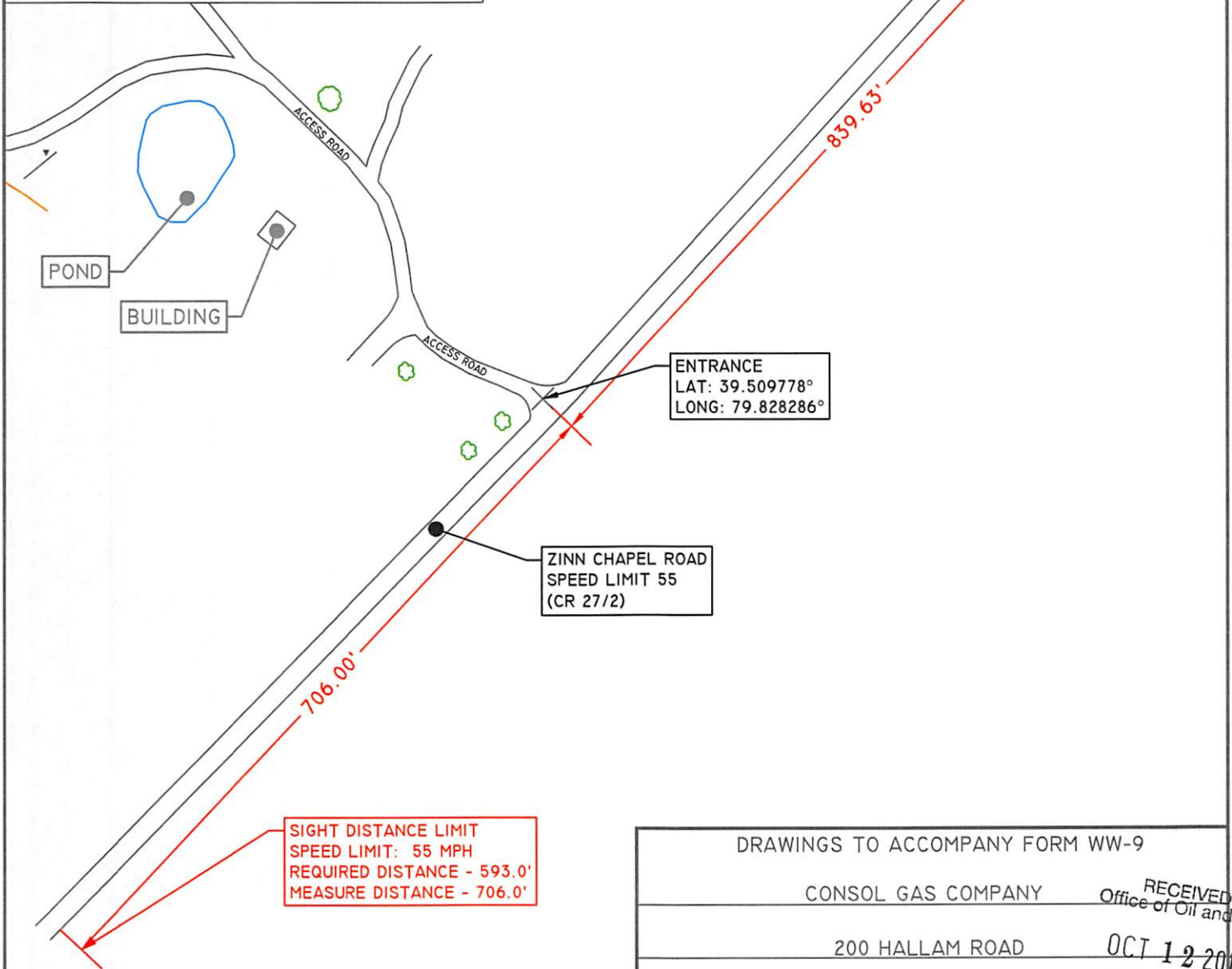


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LEGEND

- - - - - EXISTING ROAD
- ~~~~~ EXISTING TREE LINE

SIGHT DISTANCE LIMIT
SPEED LIMIT: 55 MPH
REQUIRED DISTANCE - 593.0'
MEASURE DISTANCE - 840.0'



SIGHT DISTANCE LIMIT
SPEED LIMIT: 55 MPH
REQUIRED DISTANCE - 593.0'
MEASURE DISTANCE - 706.0'

DRAWINGS TO ACCOMPANY FORM WW-9

CONSOL GAS COMPANY

200 HALLAM ROAD

WASHINGTON, PA 15301

WATERSHED: HEADWATERS DECKERS CREEK

DISTRICT: VALLEY COUNTY: PRESTON

QUADRANGLE: MASONTOWN WELL NO: HOLMES 7142

DATE: 07/13/2017 PAGE 2 OF 4

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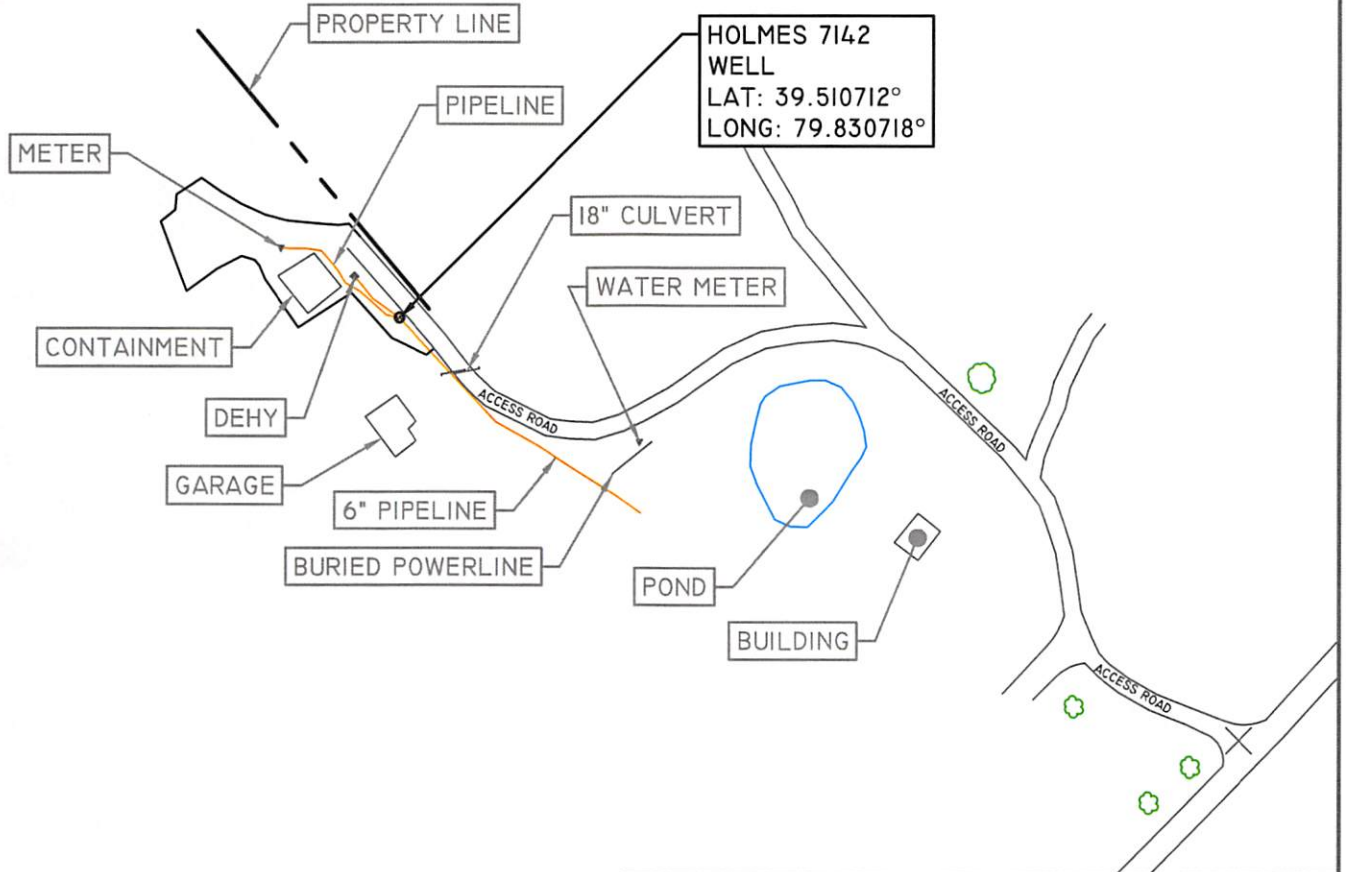
OCT 12 2017

WV Department of
Environmental Protection

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LEGEND

- — — — — - EXISTING ROAD
- ~~~~~ - EXISTING TREE LINE



DRAWINGS TO ACCOMPANY FORM WW-9

CONSOL GAS COMPANY

200 HALLAM ROAD

WASHINGTON, PA 15301

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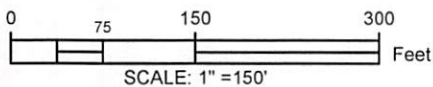
WV Department of
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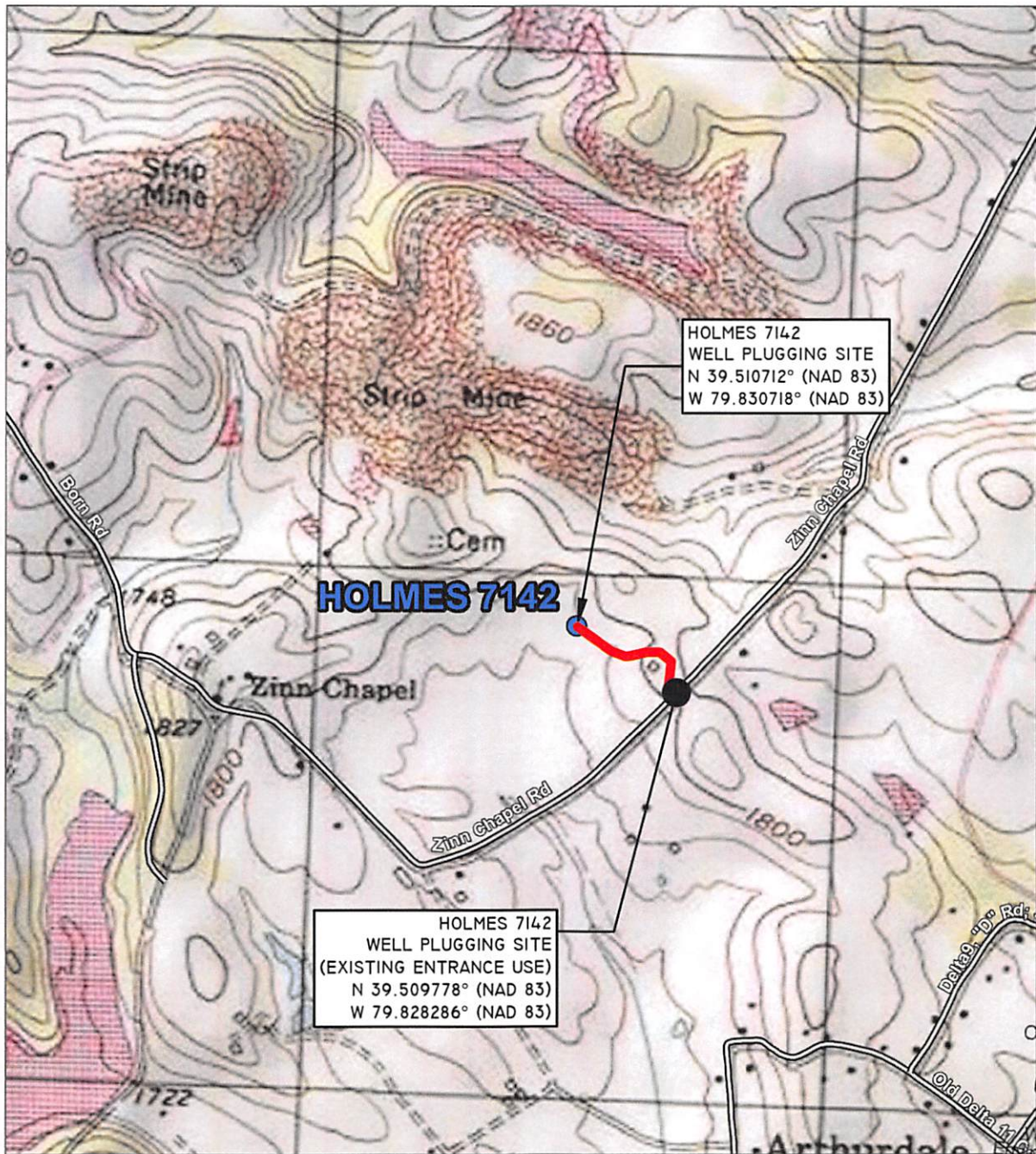
WATERSHED: HEADWATERS DECKERS CREEK

DISTRICT: VALLEY COUNTY: PRESTON

QUADRANGLE: MASONTOWN WELL NO: HOLMES 7142

DATE: 07/13/2017 PAGE 3 OF 4





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LOCATION MAP
MASONTOWN, WV 7.5M USGS QUADRANGLE
SCALE: 1"=1000'



Blue Mountain Inc.
Engineers and Land Surveyors
Woman Owned Small Business
11023 Mason Dixon Hwy.
Burton, WV 26562-9636
(304) 662-6486

LOCATION MAP
GAS WELL PLUGGING
HOLMES 7142 GAS WELL
VALLEY DISTRICT
PRESTON COUNTY, WV
CONSOL GAS COMPANY
200 HALLAM ROAD
WASHINGTON, PA 15301

DRAWN BY: LLF
CHECKED BY: WPF
DATE: 07/13/2017
SCALE: 1"=1000'
WATERSHED: HEADWATERS DECKERS CREEK
PAGE 4 OF 4

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas
WELL LOCATION FORM: GPS

API: 47-077-00186 WELL NO.: 7142

FARM NAME: Holmes

RESPONSIBLE PARTY NAME: Sarah Weigand

COUNTY: Preston DISTRICT: Valley

QUADRANGLE: Masontown

SURFACE OWNER: SPIKES CHIMNEY SWEEP LLC

ROYALTY OWNER: _____

UTM GPS NORTHING: 4,374,105.953 METERS

UTM GPS EASTING: 600,519.624 METERS GPS ELEVATION: 540.002 METERS

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

Survey grade GPS : Post Processed Differential

Real-Time Differential

Mapping Grade GPS : Post Processed Differential

Real-Time Differential

4. **Letter size copy of the topography map showing the well location.**

I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.

Sarah Weigand Permitting Manager
Signature Title

9/28/17
Date

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